## **MERRIAM MOUNTAINS SPECIFIC PLAN**

## **APPENDIX W**

## LAND EVALUATION SITE ASSESSMENT

GPA 04-06; SP 04-006; R04-013; VTM5381; S04-035, S04-036, S04-037, S04-038; Log No. 04-08-028; SCH No. 2004091166

for the

## DRAFT ENVIRONMENTAL IMPACT REPORT

August 2007

## **MERRIAM MOUNTAINS SPECIFIC PLAN**

## LAND EVALUATION SITE ASSESSMENT

October 2006

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## Appendix A. California Agricultural LESA Worksheets

## **NOTES**

Part 1

1. 2,327 acres

29. See land evaluation worksheet

Partz

See land evaluation worksheet

## Calculation of the Land Evaluation (LE) Score

## Part 1. Land Capability Classification (LCC) Score:

- (1) Determine the total acreage of the project.
- (2) Determine the soil types within the project area and enter them in **Column A** of the **Land Evaluation Worksheet** provided on page 2-A.
- (3) Calculate the total acres of each soil type and enter the amounts in Column B.
- (4) Divide the acres of each soil type (**Column B**) by the total acreage to determine the proportion of each soil type present. Enter the proportion of each soil type in **Column C**.
- (5) Determine the LCC for each soil type from the applicable Soil Survey and enter it in Column D.
- (6) From the <u>LCC Scoring Table</u> below, determine the point rating corresponding to the LCC for each soil type and enter it in **Column E**.

### LCC Scoring Table

LCC Class	l	lle	∕ IIs,w	llle	IIIs,w	IVe	IVs,w	٧	Vle,s,w	VIIe,s,w	VIII
Points	100	90	80	70	60	50	40	30	20	10	0

- (7) Multiply the proportion of each soil type (Column C) by the point score (Column E) and enter the resulting scores in Column F.
- (8) Sum the LCC scores in Column F.
- (9) Enter the LCC score in box <1> of the Final LESA Score Sheet on page 10-A.

### Part 2. Storie Index Score:

- (1) Determine the Storie Index rating for each soil type and enter it in Column G.
- (2) Multiply the proportion of each soil type (**Column C**) by the Storie Index rating (**Column G**) and enter the scores in **Column H**.
- (3) Sum the Storie Index scores in Column H to gain the Storie Index Score.
- (4) Enter the Storie Index Score in box <2> of the Final LESA Score Sheet on page 10-A.

# Land Capability Classification (LCC) and Storie Index Scores

A	В	С	D	Ε	F	G	H
Soil Map	Project	Proportion of	LC	LCC	LCC	Storie	Storie
							Index
Unit	Acres	Project Area		Rating	Score	Index	Score
AcG	1132.2	0.487	<u>VIII</u>	0	0	<10	<4.87
CmEZ	177.9	0.076	ΔIJ	10	0.76	10	0.76
CmrG	701.1	108.0	<u> </u>	10	3.01	45	41,505
CnEZ	85,9	0.037	<u> प्रत</u>	0	0	18	0.666
CnGZ	15.1	0.006	MI	0	0	7	0.04Z
EsC	ч,5	0,002	皿	10	0.14	51	0,102
Totals		(Must Sum to 1.0)		LCC Total Score		Storie Index Total Score	1

Site Assessment Worksheet 1.

## **Project Size Score**

	1	J	K
	LCC Class	LCC	LCC
		Class	Class
	1-11		IV - VIII
			1132,2
			177,9
-			701.1
			85.9
			15.1
		4.5	
Total Acres	-	<b></b>	<del>-</del>
Project Size Scores			<del>-</del>
·			

Highest Project Size Score \_

## Land Capability Classification (LCC) and Storie Index Scores

A	В	С	D	E	F	G	Н
Soil Map	Project	Proportion of	LCC	LCC	LCC	Storie	Storie
							Index
Unit	Acres	Project Area		Rating	Score	Index	Score
FaDZ	11.9	0.005	De	50	0.25	418	0,24
FaEZ	2.5	0.002	ΣLe	20	0.04	35	0,07
FxG	22.4	0.010	IIV	10	010	45	40,05
LPD2	4.8	0.002	We	O 5	0110	33	0.066
LpE2	7.6	0.003	Me	20	ماه,ن	26	0,078
LrE	44,0	0,019	Μe	20	0.38	24	0.456
Totals		(Must Sum to 1.0)		LCC Total Score		Storie Index Total Score	

Site Assessment Worksheet 1.

## **Project Size Score**

		J	K
	LCC Class	LCC	LCC
	I – II	Class ∭	Class IV - VIII
			11,9
			5,5
			22.4
			4,8
			7.6
			44,0
Total Acres	-	1	-
Project Size Scores		_	_
'			

Highest Project Size Score \_

# Land Capability Classification (LCC) and Storie Index Scores

A	В	С	D	E	F	G	Н
Soil Map	Project	Proportion of	LCC	LCC	TCC	Storie	Storie
							Index
Unit	Acres	Project Area		Rating	Score	Index	Score
Lr G	24,9	0.011	Шe	10	11.0	ુ	880.0
	,,,			• ***			
Pec	7.5	0.003	We	50	0.15	49	0.147
PeCZ	2.6	0.001	Иe	50	0.05	44	0.044
						,	2-
PeDZ	0.0	0,000	IV c.	50	0.00	d. — de la composition della c	0,000
					22	and t	
RaC2	16.0	0.007	回回	70	0.49	51	0.357
RaDZ	4.4	0.002	We	50	0.10	48	0.096
		(Must Sum		LCC		Storie Index	
Totals		to 1.0)		Total		Total Score	
				Score			

## Site Assessment Worksheet 1.

## **Project Size Score**

		J	K
	LCC Class	LCC Class	LCC Class
	1-11	<b>III</b>	IV - VIII
			24,9
			رب رب
			2.6
			0.0
		0 وا	
			4.4
Total Acres		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Project Size Scores			

Highest Project Size Score

	-	
E .		

## Land Capability Classification (LCC) and Storie Index Scores

A	В	С	D	Ε	F	G	Н
Soil Map	Project	Proportion of	LCC	LCC	LCC	Storie	Storie
l lmit	A 0.000			D-#	0		Index
Unit	Acres	Project Area		Rating	Score	Index	Score
VaB	20.6	0.009	Πe	90	0.81	81	0.729
VVE	33. l	0.014	Wе	20	0,28	27	0,378
WmC	5,0	0.002	Πe	90	0.18	77	0.154
		-					
Totals	2,327	(Must Sum to 1.0)		LCC Total Score	7.01	Storie Index Total Score	i l

Site Assessment Worksheet 1.

## **Project Size Score**

	1	J	K
	LCC Class	LCC	LCC
		Class	Class
	1-11	111	IV - VIII
	20.6		
			33.1
·	5.0		
Total Acres	25,6	20.5	2 2000
	~~, ~	40.5	2,2809
Project Size Scores	/~ / \	30	100

Highest Project Size Score

100

LESA Worksheet (cont.)

### **NOTES**

## Calculation of the Site Assessment (SA) Score

### Part 1. Project Size Score:.

- (1) Using **Site Assessment Worksheet 1** provided on page 2-A, enter the acreage of each soil type from **Column B** in the **Column I, J or K -** that corresponds to the LCC for that soil. (Note: While the Project Size Score is a component of the Site Assessment calculations, the score sheet is an extension of data collected in the Land Evaluation Worksheet, and is therefore displayed beside it).
- (2) Sum Column I to determine the total amount of class I and II soils on the project site.
- (3) Sum Column J to determine the total amount of class III soils on the project site.
- (4) Sum Column K to determine the total amount of class IV and lower soils on the project site.
- (5) Compare the total score for each LCC group in the <u>Project Size Scoring Table</u> below and determine which group receives the highest score.

Project Size Scoring Table

Class I or II		Clas	s III	Class IV or Lower	
Acreage	Points	Acreage	Points	Acreage	Points
>80	100	>160	100	>320	100
60-79	90 -	120-159	90	240-319	80
40-59	80	80-119	80	160-239	60
20-39	50	60-79	70	100-159	40
10-19	30	40-59	60	40-99	20
10<	0	20-39	30	40<	0
		10-19	10		
		10<	0		

(6) Enter the **Project Size Score** (the highest score from the three LCC categories) in box <3> of the **Final LESA Score Sheet** on page 10-A.

### **NOTES**

- · Two potable water tanks are located within the project boundary.
- · Water pipelines from the above tanks are located onsite and extend offsite.
- The water tanks and associated pipelines were built in response to surrounding needs to serve adjacent land uses. The tanks and pipelines do not currently serve the project area. They were placed within the project site in an effort to expand Vallecitos Water District (VWD) services in the area.
- \*Onsite riparion water is not sufficent to support agricultural production.
- Through communications with property owners it is known that two water wells are located on the Jimenez property that were previously used in support of residential/trailer use and goat raising activities. The total property area consists of 411.2 acres. No water lines are known to be located within this property. These water wells are no longer in use.
- · VWD doosn't supply reclaimed water, only potable water. However, it is known that the potable water is used for irregation proposes in the surrounding areas.
- No known sources of irregation exist onsite except for:
  - · 2.4 acres of land from encroaching agricultural
  - . 5.3 acres of greenhouse operations that occur in the southern portion of the project site.

## Part 2. Water Resource Availability Score:

- (1) Determine the type(s) of irrigation present on the project site, including a determination of whether there is dryland agricultural activity as well.
- (2) Divide the site into portions according to the type or types of irrigation or dryland cropping that is available in each portion. Enter this information in **Column B** of **Site Assessment Worksheet 2. Water Resources Availability**.
- (3) Determine the proportion of the total site represented for each portion identified, and enter this information in **Column C**.
- (4) Using the <u>Water Resources Availability Scoring Table</u>, identify the option that is most applicable for each portion, based upon the feasibility of irrigation in drought and non-drought years, and whether physical or economic restrictions are likely to exist. Enter the applicable Water Resource Availability Score into **Column D**.
- (5) Multiply the Water Resource Availability Score for each portion by the proportion of the project area it represents to determine the weighted score for each portion in **Column E**.
- (6) Sum the scores for all portions to determine the project's total Water Resources Availability Score
- (7) Enter the Water Resource Availability Score in box <4> of the **Final LESA Score Sheet** on page 10-A.

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## Site Assessment Worksheet 2. - Water Resources Availability

Α	В	С	D	E
			Water	Weighted
Project	Water	Proportion of	Availability	Availability
Portion	Source	Project Area	Score	Score
				(C x D)
1	Not Irregated	0.997	0	0
2	VWD Irreguled (house)	0.002	80	0.16
	9			
3	VMD Irregated (agriculture	0.001	80	80,0
	•			
4				<i>-</i>
5				
6			-	
	-	(Must Sum	Total Water	
		to 1.0)	Resource Score	0,24

## Water Resource Availability Scoring Table

			Non-Drought Years			Drought Years		
	Option	RESTRICTIONS			RESTRICTIONS			WATER RESOURCE
		Irrigated Production Feasible?	Physical Restrictions ?	Economic Restrictions ?	Irrigated Production Feasible?	Physical Restrictions ?	Economic Restrictions ?	SCORE
	1	YES	NO	NO	YES	NO	NO	100
	2	YES	NO	NO	YES	NO	YES	95
	3	YES	NO	YES	YES	NO	YES	90
	4	YES	NO	NO	YEŞ	YES	NO	85
283 ->	(5)	YES	NO	NO	YES	YES	YES	80
	6	YES	YES	NO	YES	YES	NO	75
	7	YES	YES	YES	YES	YES	YES	65
	8	YES	NO	NO	NO			50
	9	YES	NO	YES	NO	****	60 Mar - 40 Mar	45
	10	YES	YES	NO	NO			35
	11	YES	YES	YES	NO		<del></del>	30
	12		n not feasible, but r drought and non-d	•	r dryland			25
	13		n not feasible, but r drought years (but		-			20
1 🎓	(14)	Neither irrigated n	or dryland production	on feasible				0

A - 6

## **NOTES**

## Part 3. Surrounding Agricultural Land Use Score:

- (1) Calculate the project's Zone of Influence (ZOI) as follows:
  - (a) a rectangle is drawn around the project such that the rectangle is the smallest that can completely encompass the project area.
  - (b) a second rectangle is then drawn which extends <u>one quarter mile</u> on all sides beyond the first rectangle.
  - (c) The ZOI includes all parcels that are contained within or are intersected by the second rectangle, less the area of the project itself.
- (2) Sum the area of all parcels to determine the total acreage of the ZOI.
- (3) Determine which parcels are in agricultural use and sum the areas of these parcels
- (4) Divide the area in agriculture found in step (3) by the total area of the ZOI found in step (2) to determine the percent of the ZOI that is in agricultural use.
- (5) Determine the Surrounding Agricultural Land Score utilizing the <u>Surrounding Agricultural Land Scoring Table</u> below.

#### Surrounding Agricultural Land Scoring Table

Percent of ZOI in Agriculture	Surrounding Agricultural Land Score
90-100	100
80-89	95
70-79	90
65-69	85
60-64	80
55-59	70
50-54	60
45-49	50
40-44	40
35-39	30
30-34	20
20-29	10
<19	0

(5) Enter the Surrounding Agricultural Land Score in box <5> of the Final LESA Score Sheet on page 10-A.

Site Assessment Worksheet 3.
Surrounding Agricultural Land and Surrounding Protected Resource Land

A	В	C	<u>D</u>	E	F	G
Zone of Influence					Surrounding	
Total Acres	Acres in Agriculture	Acres of Protected Resource Land	Percent in Agriculture (A/B)	Percent Protected Resource Land (A/C)	Surrounding Agricultural Land Score (From Table)	Protected Resource Land Score (From Table)
8,095	2,680	405	33.\	5.0	20	0

Note: The total acreage for Williamson Act Agricutural Preserve Lands (which consist of 164 acres, as shown in Figure 1) was added to both colum B (Acres in Agriculture) and culum C (Acres of Protected Resource Land) since agricultural production currently exists within these lands and Williamson Act lands are counted as Protected Resource Lands.

LESA Worksheet (cont.)

## <u>NOTES</u>

See Figures 1 and 2.

#### Part 4. Protected Resource Lands Score:

The Protected Resource Lands scoring relies upon the same Zone of Influence information gathered in Part 3, and figures are entered in Site Assessment Worksheet 3, which combines the surrounding agricultural and protected lands calculations.

- (1) Use the total area of the ZOI calculated in Part 3. for the Surrounding Agricultural Land Use score.
- (2) Sum the area of those parcels within the ZOI that are protected resource lands, as defined in the California Agricultural LESA Guidelines.
- (3) Divide the area that is determined to be protected in Step (2) by the total acreage of the ZOI to determine the percentage of the surrounding area that is under resource protection.
- (4) Determine the Surrounding Protected Resource Land Score utilizing the <u>Surrounding Protected Resource</u> <u>Land Scoring Table</u> below.

#### Surrounding Protected Resource Land Scoring Table

Percent of ZOI	Protected Resource
Protected	Land Score
90-100	100
80-89	95
70-79	90
65-69	85
60-64	80
55-59	70
50-54	60
45-49	50
40-44	40
35-39	30
30-34	20
20-29	10
<20	0

(5) Enter the Protected Resource Land score in box <6> of the Final LESA Score Sheet on page 10-A.

LESA Worksheet (cont.)

## **NOTES**

### Final LESA Score Sheet

#### Calculation of the Final LESA Score:

- (1) Multiply each factor score by the factor weight to determine the weighted score and enter in Weighted Factor Scores column.
- (2) Sum the weighted factor scores for the LE factors to determine the total LE score for the project.
- (3) Sum the weighted factor scores for the SA factors to determine the total SA score for the project.
- (4) Sum the total LE and SA scores to determine the Final LESA Score for the project.

	Factor	Factor	Weighted
-	Scores	1	Factor
	Scores	Weight	
			Scores
LE Factors			
Land Capability	<1> ¬	0.25	\ -> <
Classification	1,01		75
Storie	<2>	0.25	
Index	10.9		2,73
LE		0.50	1) 1)6
Subtotal			4.48
SA Factors			
Project	<3>	0.15	4-
Size	100		15.0
Water Resource	<4>	0.15	
Availability	0.24		0,04
Surrounding	<5>	0.15	
Agricultural Land	20		3.0
Protected	<6>	0.05	
Resource Land			$\circ$
SA		0.50	\ (** \)
Subtotal			18.04
		Final LESA	
		Score	22,52

For further information on the scoring thresholds under the California Agricultural LESA Model, consult Section 4 of the Instruction Manual.

## Section IV. California Agricultural LESA Scoring Thresholds - Making Determinations of Significance Under CEQA

A single LESA score is generated for a given project after all of the individual Land Evaluation and Site Assessment factors have been scored and weighted as detailed in Sections 2 and 3. Just as with the scoring of individual factors that comprise the California Agricultural LESA Model, final project scoring is based on a scale of 100 points, with a given project being capable of deriving a maximum of 50 points from the Land Evaluation factors and 50 points from the Site Assessment factors.

The California Agricultural LESA Model is designed to make determinations of the potential significance of a project's conversion of agricultural lands during the Initial Study phase of the CEQA review process. Scoring thresholds are based upon both the total LESA score as well as the component LE and SA subscores. In this manner the scoring thresholds are dependent upon the attainment of a minimum score for the LE and SA subscores so that a single threshold is not the result of heavily skewed subscores (i.e., a site with a very high LE score, but a very low SA score, or vice versa). Table 9 presents the California Agricultural LESA scoring thresholds.

Table 9. California LESA Model Scoring Thresholds

Total LESA Score	Not Considered Significant		
0 to 39 Points			
40 to 59 Points	Considered Significant <u>only</u> if LE <u>and</u> SA subscores are each <u>greater</u> than or equal to 20 points		
60 to 79 Points	Considered Significant <u>unless</u> either LE <u>or</u> SA subscore is <u>less</u> than 20 points		
80 to 100 Points	Considered Significant		





